

# PATENT SPECIFICATION

249,881

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## COMPLETE SPECIFICATION.

### Improvements in or relating to Dust Aspirators.

We, SIEMENS - SCHUCKERTWERKE  
GESELLSCHAFT MIT BESCHRANKTER  
HAFTUNG, a German company, of Berlin-  
Siemensstadt, Germany, do hereby  
5 declare the nature of this invention and  
in what manner the same is to be per-  
formed, to be particularly described and  
ascertained in and by the following state-  
ment :—

10 When working with dust aspirators it  
is frequently desirable to be able to  
observe whether the aspirator is working  
properly or not, as generally speaking it  
cannot be seen at the first glance  
15 whether, due probably to some leakages,  
no vacuum is being created so that the  
transmission of dust ceases or is, in any  
case, greatly reduced. Taking the dust  
aspirator to pieces and examining the  
20 quantity of dust transmitted is frequently  
tedious and can also not be conducted in  
the room itself, as the dust contained in  
the receiver is easily stirred up into  
eddies and becomes distributed through  
25 the room it is desired to clean. Now it  
has been proposed to insert in the suction  
pipe an intermediate member of trans-  
parent material, such as glass for  
example, so as to enable the stream of  
30 dust and its composition to be observed.  
The intermediate members hitherto  
known, however, possess the drawback  
that the stream of dust flows through said  
intermediate member mostly at almost  
35 full suction speed and, consequently, its  
composition can only be imperfectly  
recognised. Now the present invention  
shows an arrangement in which this  
drawback is obviated.

40 According to the invention the inter-  
mediate member consists of a substan-  
tially round casing in which the current  
of dust enters tangentially and leaves it  
again substantially at right angles to the  
45 influx direction. Owing to the special  
shape of this intermediate member the  
dust upon its entrance is first of all

whirled round in a circle and then leaves  
the intermediate member through the  
discharge outlet provided preferably in 50  
the centre of the circle. The circular  
movement of the dust continues for a  
sufficient length of time so that its quan-  
tity and composition can be easily  
55 observed and the dust aspirator can be  
suitably adjusted so as to correspond  
thereto.

In Figures 1 and 2 of the accompany-  
ing drawings there is shown a construc-  
tional example of the invention. The 60  
intermediate member in this case con-  
sists of an ellipse shaped casing which  
in Figure 1 is shown in lateral and in  
Figure 2 in front elevation. As will  
furthermore be seen from the drawings 65  
the stream of dust passes tangentially  
into the casing and leaves it through a  
pipe, which is mounted on the upper part  
of the casing at a right angle in relation  
to the inlet aperture. 70

Having now particularly described and  
ascertained the nature of our said inven-  
tion and in what manner the same is to  
be performed, we declare that what we  
claim is :— 75

1. A suction pipe for dust aspirators  
with an intermediate member of trans-  
parent material; characterised by the fact  
that the intermediate member consists  
of a substantially round casing into which 80  
the stream of dust enters tangentially  
and leaves approximately at right angles  
to the direction in which it enters.

2. A suction pipe for dust aspirators  
substantially as hereinbefore described 85  
with reference to the accompanying  
drawings.

Dated this 26th day of March, 1926.

HASELTINE, LAKE & Co.,  
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England, and  
15, Park Row, New York, N.Y., U.S.A.,  
Agents for the Applicants.

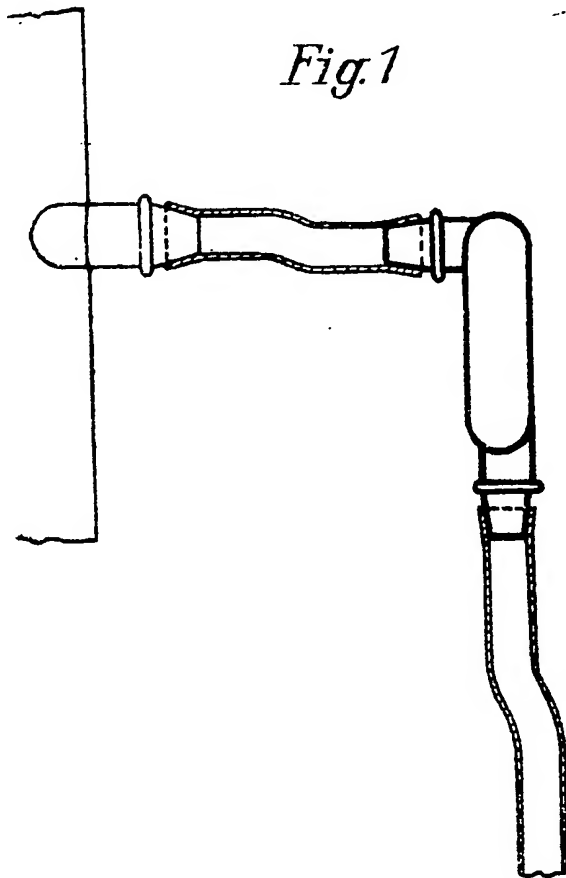
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*[This Drawing is a full-size reproduction of the Original]*

*Fig. 1*



*Fig. 2*

